



UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Petro Estakhri et al.

Atty Docket #:38979-11C4(New Docket No.)

Serial No .:

09/620,544

Group Art Unit:

2188

Filing Date:

07/21/2000

Examiner:

Reginald G. Bragdon

Title: "MOVING SECTORS WITHIN A BLOCK OF INFORMATION IN A FLASH

MEMORY MASS STORAGE ARCHITECTURE"

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith the references listed on the attached form PTO/SB/08A substitute for form 1449A/PTO of which Applicant is aware which are believed to be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this supplemental information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), nor as an admission that the information cited is, or is considered to be, material to patent ability, nor an admission that no other material information exists.

The filing of this supplemental information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Respectfully submitted,

DATE: September 21, 2004

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Substitute for form 1449A/PTO SUPPLEMENTAL **ENFORMATION DISCLOSURE** STĮEMENT BY APPLICANT

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Complete if Known							
Application Number	09/620,544						
Filing Date	07/21/2000						
First Named Inventor	Petro Estakhri						
Group Art Unit	2188						
Examiner Name	Reginald G. Bragdon						
Attorney Docket Number	38979-11C5(New Docket No.)						

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Application Number	09/620,544						
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Complete if Known Application Number 09/620,544 **Filing Date** 07/21/2000 First Named Inventor Petro Estakhri Group Art Unit 2188 **Examiner Name** Reginald G. Bragdon Attorney Docket Number 38979-11C5(New Docket No.)

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(Intel's 28F400BV-120 and 28F004BV-120, Atmel's AT29BV010 and AT29BV020, and C19 Samsung Semiconductor's KM29V32000 "flash" memory" devices)(Product Announcement), article, March 13, 1995, 4 pgs., Electronic News, v.41, n.2056, The Gale Group SAM WEBER, "Flash" modules' portability, reusability, small size valued for a host of APPs-Consumer formats flocking to "flash", article, 7/22/96, 9 C20 pgs., Electronic Engineering Times, n.911, CMP Media C21 TOSHIBA, MOS MEMORY (NON-VOLATILE), 1995, Data Book STAN BAKER, BUT INTEGRATION CALLS FOR HARDWARE, SOFTWARE CHANGES: Flash: designers face the dawn of a new memory age, C22 article, 9/12/03, 5 pgs., Electronic Engineering Times, 1990, N.619, 41, CMP Media C23 TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE CMOS, (TC58NS512DC) 3/21/2001, 43 pgs., Data Book C24 TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Hardware Edition Version 1.00, July 1, 2000, 36 pgs., Data Book C25 TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58512FT), 3/05/2001, 43 pgs., Data Book C26 TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVM92A1FT00), 1/10/2003, 44 pgs., Data Book C27 TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TC58DVG02A1FT00), 1/10/2003, 44 pgs., Data Book C28 TOSHIBA, TOSHIBA MOS DIGITAL INTEGRATED CIRCUIT SILICON GATE, (TH58100FT), 3/05/2001, 43 pgs., Data Book 35NONVOLATILE MEMORY TECHNOLOGY REVIEW, A Time of Change, Proceedings 1993 Conference, June 22-24, 1993, Linthlcum Heights, MD C29 C30 TOSHIBA CORPORATION, SMIL (Smartmedia Interface Library) Software Edition Version 1.00, July 1, 2000, 136 pgs., Data Book C31 TOSHIBA, MOS MEMORY (NON-VOLATILE), 1996, 279 pgs., Data Book C32 DAN AUCLAIR, Optimal Solid State Disk Architecure For Portable Computers, symposium, July 9, 1991, 7 pgs., SunDisk Corporation

Examiner Date Signature Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number. See attached Kinds of U.S. Patent Documents. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached.



....PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Petro Estakhri et al.

Attorney Docket #:

38979-11C4

Serial No.:

09/620,544

Group Art Unit:

2188

Filing Date:

07/21/2000

Examiner:

Bragdon, R.

Title: "MOVING SECTORS WITHIN A BLOCK OF INFORMATION IN A FLASH

MEMORY MASS STORAGE ARCHITECTURE"

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith the references listed on the attached form PTO/SB/08A substitute for form 1449A/PTO of which Applicant is aware which are believed to be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this supplemental information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), nor as an admission that the information cited is, or is considered to be, material to patent ability, nor an admission that no other material information exists.

The filing of this supplemental information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Respectfully submitted,

DATE: June 16, 2004

Maryam Imam Reg. No: 38190

LAW OFFICES OF IMAM 111 North Market Street, Suite 1010 San Jose, CA 95113

Tel. No: (408) 271-8752/3 Fax. No: (408)271-8886

CERTIFICATE OF MAILING (37CFR 1.8 (a))

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited on June 16, 2004 with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/08A (10-96)

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Substit	ute for form 1449A/P	το [′]	100h Jul	Complete if Known			
SUPP	LEMENTAL	;	E8 5 , E	Application Number	09/620,544		
INFO	ute for form 1449A/P [*] LEMENTAL ORMATION [DIS	CLOSURE	Filing Date	07/21/2000		
STA	TEMENT BY	/ AF	PLUCANT	First Named Inventor	Petro Estakhri		
				Group Art Unit	2188		
	(use as many sheets	s as n	ecessary)	Examiner Name	Bragdon, Reginald G.		
Sheet	1	of	1	Attorney Docket Number	38979-11C4		

				U.S. PATENT DOCUM	ENTS	
	U.S. Patent Document			Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Number	Kind Code ² (<i>if known</i>)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear
		5,640,528		Harney et al.	06/17/1997	
		5,341,339		Wells	08/23/1994	
	 					
						
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	FOREIGN PATENT DOCUMENTS												
Examiner Cite Initials* No.1	Fore	ign Patent Documer			Date of Publication of	Pages, Columns, Lines,							
		Office ³	Number ⁴	Kind Code ^s (<i>if known</i>)	Name of Patentee or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Τ*					
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Examiner	Date	
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ¹For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.



...PATENT

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Estakhri et al.

Attorney Docket #:

38979-11CPA2

Serial No.:

09/620,544

Group Art Unit:

2186

Filing Date:

07/21/2000

Examiner:

Bragdon, R.

Title: "MOVING SECTORS WITHIN A BLOCK OF INFORMATION IN A FLASH

MEMORY MASS STORAGE ARCHITECTURE."

Assistant Commissioner for Patents

Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Applicant submits herewith the references listed on the attached form PTO/SB/08A substitute for form 1449A/PTO of which Applicant is aware which are believed to be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 CFR 1.97(g)), nor as an admission that the information cited is, or is considered to be, material to patent ability, nor an admission that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Respectfully submitted,

DATE: September 12, 2002

Maryam Imam Reg. No: 38190

LAW OFFICES OF IMAM 111 North Market Street, Bullo 1010

Sen Jose, CA 95113 Tel. No: (408) 271-8752/3 Fax. No: (408)271-8886

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Date: Sentember 12, 2002

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38819-110962

(Supplemental Information Duringers Continuent)

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	SUPP	LEMENTAL	120	(بير 2 1 2004	Application Number	09/620,544
	INF	ORMATION	DESC	CLOSURE	Filing Date	07/21/2000
	STA	TEMENT B	Y ÀP	PEPEANT	First Named Inventor	Estakhri et al.
					Group Art Unit	2186
		(use as many she	ets as ne	cessary)	Examiner Name	Bragdon, R.
	Sheet	1	of	1	Attorney Docket Number	38979-11CPA2

	U.S. PATENT DOCUMENTS											
Examiner Initials*	Cite No.1	U.S. Patent Documen	Kind Code ² (If known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevent Passages or Relevant Figures Appear						
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Signature	Considered	

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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that Issued the document, by the two-letter code (WiPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WiPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English tanguage Translation is attached.



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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Petro Estakhri et al.

Serial No.: 09/264,340

Filing Date: March 8, 1999

For MOVING SECTORS WITHIN A BLOCK OF

INFORMATION IN A FLASH MEMORY MASS STORAGE ARCHITECTURE

Examiner: Not yet known

Group Art: Unit: 2751

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

Listed below or on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any,

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. If form PTO-1449 is enclosed, the Examiner is requested to initial and return it in accordance with MPEP §609.

Attorney Docket No.: LEXAR-11C1

This statement is not intended to represent that a search has been made or that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56.

X	This stateme	nt quali	fies under 37 C.F.R. §1.97, subsection (b) because (check all that apply)
		(1)	It is being filed within 3 months of the application filing date — OR —
	·	(2)	It is being filed within 3 months of entry of a national stage — OR —
	<u>X</u> .	(3)	It is being filed before the mail date of the first Office Action on the merits.
······································	national stag	e or a l e as se action	If this statement is being filed after the latest of: (1) three months beyond national application; (2) three months beyond the date of entry of the triorth in §1.491 in an international application; or (3) the mailing date of the merits, but before the mailing date of the earlier of a final office or a notice of allowance under §1.311, then:
	a.cer	tificatio	n as specified in §1.97(e) is provided below; or
	a:fee	of \$24	0.00 as set forth in \$1.17(p) is authorized below, enclosed, or include

with the payment of other papers filed together with this statement.

Attorney Docket No.: LEXAR-11C1

- 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:
 - A. a certification as specified in §1.97(e) is completed below; and
 - B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; and
 - C. a fee of \$130.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

Respectfully submitted,

Reg. No. 38,190

Date: 9/21/99

Maryam Imam

LAW OFFICES OF IMAM & ASSOCIATES Two North Second Street, Suite 1100 San Jose, CA 95113 408-271-8752

408-271-8727 fax



PTO-1449

ATTY. DOCKET NO. LEXAR-11C1

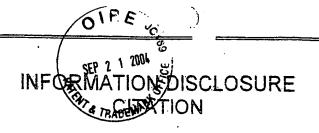
APPLICATION NO. 09/264,340

APPLICANT Estakhri et al.

FILING DATE 3/8/99

GROUP 2751

U.S. PATENT DOCUMENTS EXAMINER'S							
FINITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A1	4,210,959	7/1/80	Wozniak	364	200	
	A2	4,355,376	10/19/82	Gould	365	230	
	A3	4,405,952	9/20/83	Slakmon	360	49	
	A4	4,450,559	5/22/84	Bond et al.	371	10	
	A5	4,456,971	6/26/84	Fukuda:et:al.	364	900	
	A6	4,498,146	2/5/85	Martinez	364	900	
· · · · · ·	A7	4,525,839	6/25/85	Nozawa et al.	371	38	
	A8	4,616,311	10/7/86	Sato	364	200	
	A9	4,654,847	3/31/87	Dutton	371	10	
	A10	4,710,871	12/1/87	Belknap et al.	364	200	
	A11	4,746,998	5/24/88	Robinson et al.	360	72.1	
	A12	4,748,320	5/31,88	Yorimoto et al.	235	492	
	A13	4,757,474	7/12/88	Fukushi et al.	365	189	
	A14	4,774,700	9/27/88	Satoh et:al.	369	54	
	A15	4,800,520	1/24/89	lijima	364	900	
	A16	4,896,262	1/23/90	Wayama et al.	364	200	
	A17	4,914,529	4/3/90	Bonke	360	48	
	A18	4,920,518	4/24/90.	Nakamura et al.	365	228	
	A19	4,924,331	5/8/90	Robinson et al.	360	72.1	
·	A20	4,953,122	8/28/90	Williams	364	900	
	A21	5,070,474	12/3/91	Tuma et al.	395	500	
	A22	5,168,465	12/1/92	Harari	25.7	320	
	A23	5,198,380	3/30/93	Harari	437	<u> </u>	
	A24					43	
		5,200,959	4/6/93	Gross et al.	371	21.6	
	A25	5,226,168	7/6/93	Kobayashi et al.	395	800	



PTO-1449

ATTY. DOCKET NO. LEXAR-11C1

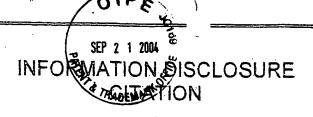
APPLICATION NO. 09/264,340

APPLICANT Estakhri et al.

FILING DATE 3/8/99

GROUP 2751

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	· · · · · ·	<u> </u>	U.S.	PATENT DOCUMENTS			
EXAMINER'S INITIALS		PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A26	5,268,318	12/7/93	Harari	437	43	
·	A27	5,268,870	12/7/93	Harari	365	218	
	A28	5,270,979	12/14/93	Harari et al.	365	218	
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	A30	5,293,560	3/8/94	Harari	365	185	
	A31	5,297,148	3/22/94	Harari et al.	371	10.2	
	A32	5,303,198	4/12/94	Adachi et al.	365	218	
	A33	5,315,541	5/24/94	Harari et al.	365	63	
	A34	5,337,275	8/9/94	Garner	365	189.01	
·	A35	5,341,330	8/23/94	Welis et al.	365	185	
	A36	5,341,339	B/23/94	Wells	365	218	
	A37	5,353,256	10/4/94	Fandrich et al.	365	230.03	
	A38	5,357,475	10/18/94	Hasbun et al.	365	218	
	A39	5,369,615	11/29/94	Harari et al.	365	218	
	A40	5,388,083	2/7/95	Assar et al.	365	218	
	A41	5,396,468	3/7/95	Harari et al.	365	218	<u></u> .
 	A42	5,418,752	5/23/95	Harari et al.	365	218	
	A43	5,422,842	6/6/95	Cernea et al	365	185	
	A44	5,428,621	6/27/95	Mehrotra et al.	371	21.4	<u> </u>
	A45	5,430,859	7/4/95	Norman et al.	395	425	
	AAG	5,420,850	7/4/00	Norman et al.		105	
		, , , , ,	11-1100	Noman et al.	335	420	
	A47	5,434,825	7/18/95	Harari	365	185	
	A48	5,438,573	8/1/95	Mangan et al.	371	10.3	
	A49	5,471,478	11/28/95	Mangan et al.	371	10.3	· · · · · · · · · · · · · · · · · · ·
	A50	5,479,638	12/26/95	Assar et al.	395	430	. * **
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ATTY. DOCKET NO. LEXAR-11C1 APPLICATION NO. 09/264,340

APPLICANT Estakhri et al.

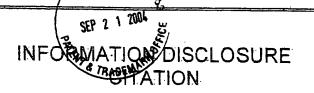
3/8/99

FILING DATE

GROUP 2751

PTO-1449

EXAMINER'S U.S. PATENT DOCUMENTS							
INITIALS		PATENT NO	DATE	NAME	CLASS	SUBCLASS.	FILING DATE
	A51	5,485,595	1/16/96	Assar et al.	395	430	
	A52	5,495,442	2/27/96	Cernea.et.al.	365	185.03	
	A53	5,504,760	4/2/96	Harari et al.	371	40.1	
	A54:	5,508,971	4/16/96	Cernea:et:al.	365	185.23	
	A55	5,524,230	6/4/96	Sakaue et al	395	430	·
	A56:	5,532,962	7/2/96	Auclair et al.	365	201	
	A57	5,532,964	7/2/96	Cernea et al.	365	189.09	
	A58	5,534,456	7/9/96	Yuan et al.	437	43	· · · · · · · · · · · · · · · · · · ·
	A59	5,535,328	7/9/96	Harari et al.	395	182.05	
•	A60	5,544,118	8/6/96	Harari	365	218	 .
	A61	5,544,356	8/6/96	Robinson et al.	395	600	
	A62	5,554,553	9/10/96	Harari .	437	43	•
	A63	5,563,825	10/8/96	Cemea et al.	365	185.18	
	A64	5,566,314	10/15/96	DeMarco et al.	. 395	430	
	A65	5,568,439	10/22/96	Harari	365	218	
•	A66	5,583,812	12/10/96	Harari	365	185.33	
	A67	5,592,420	1/7/97	Cernea et al.	365	185:18	······································
	A68	5,642,312	6/24/97	Harari	365	185.33	
	A69	5,663,901	9/2/97	Wallace et al.	365	52.	
	A70	5,693,570	12/2/97	Cernea et al.			
	A71	5,712,819	1/27/98	Harari	437	205	
			<u> </u>		365	185.29	
	A72.	5,719,808	2/17/98	Harari et al.	365	185.33	
	A73	5,778,418	7/7/98	Auclair et al.	711	101	



ATTY. DOCKET NO. LEXAR-11C1

APPLICATION NO. 09/264,340

APPLICANT Estakhri et al.

FILING DATE

3/8/99

GROUP 2751

PTO-1449

EXAMINER'S INITIALS		PATENT NO.	DATE	COUNTRY	NAME	CLASS	SUBCLASS	Trans	lation
	- 54	4.55555						Yes	No
	B1	4-332999 (A)	19.11.1992	JP	Masakazu Namekawa	G11C	29/00	Х	
	B2.	58-215794:(A)	15.12.1983	JP	Noriyuki Tanaka	G11C	17/00	Х	
	B3	58-215795 (A)	15.12.1983	JP.	Noriyuki Tanaka	G11C	17/00	X	
	B4	59-45695 (A)	7.9.1982	JP	Yuuichi Furukawa	G11C	17/00	X.	
	B5	59-162695 (A)	13.9.1984	JP	Toshio Ninomiya(1)	G11C	17/00	X	
	B6	60-212900	25.10.1985	JP	Tsuneaki Higashi	G11C	29/00	X.	\vdash
	B7	61-96598 (A)	15.5.1986	JP	Yutaka Haniyu	G11C	17/00	Х	-
	B8	62-283496 (A)	09.12.1987	JP	Shinichi Nakada	G11	17/00	X	<u> </u>
	B9	62-283497 (A)	09.12.1987	JP	Shinichi Nakada	G 11	17/00	Х	
·	B10	63-183700 (A)	29.7.1988	JP	Kazuo Ishikawa	C G 11.	17/00	Х	 -
	B11	0 557 723	08.1.1987	AU	Kevin John Burke	C G 11	5/00	X .	-
	B12	0 220 718 A2	06.5.1987	EP	Yorimoto et al.	-G 06	15/40	Х	
	B13	0 243 503 A1	04.11.1987	EP	Fukushima et al.	F G 11	20/10	X	
	B14	0 424 191 A2	24.04.1991	EP	Stephen Gross	B G 06	11/00	X	-
	B15	0 489 204 A1	10.06.1992	EP	Kevin Lloyd-Jones	<u>F</u> G 11	16/06	X	
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	B20	84/00628	16.02.1984	wo	Maria Martinez	E G 06 F	11/20, 13/00	Х	-

INIEODA	WATION DISCLOSURE	ATTY. DOCKET NO. LEXAR-11C1	APPLICATION NO. 09/264,340			
OIF	GITATION	APPLICANT Estakhri et al.				
١٨	1 200 PETO-1449	FILING DATE 3/8/99	GROUP 2751			
FIEL	OTHER DOCUMENTS (Including Author	, Title, Date, Pertinent Pag	es. Etc.)			
G TR	OTHER DOCUMENTS (Including Author ABook - Computer Architecture and Paralle Hill Book Co., © 1984, Page 64.	el Processing, Kai Hwang &	Faye A. Briggs, McGraw-			
C2	Magazine - "State of the Art: Magnetic VS Dean McCarron, Byte magazine dated 1"	5. Optical Store Data in a Fig	asn", by waiter Lanti and			
СЗ	Magazine - Technology Updates, Integra system design", Ron Wilson, Senior Edito No.5, Tulsa OK, US, pages 30 and 32					
C4	1992 Symposium of VLSI Circuits Digest Applications", S. Mehoura et al., SunDisl AT&T Bell Laboratories, Allentown, PA. F	k Corporation, Santa Clara,	ROM for Solid State Disk CA. R. W. Gregor et al.,			
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EXAMINER	1	DATE CONSIDERED				

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.